

SEQUENCE LISTING

DT09 Rec'd PCT/PTO 28 JUN 2004

<110> National Institute of Advanced Industrial Science and Technology

<120> Gene and peptide for transcriptional repressor

<130> PH-1684-PCT

<150> JP 2001-395487

<151> 2001-12-26

<150> JP 2001-395488

<151> 2001-12-26

<150> JP 2002-160671

<151> 2002-5-31

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<301> Sakai, H., Medrano, L. J. and Meyerowitz, E. M.

<302> Role of SUPERMAN in maintaining Arabidopsis floral whorl boundaries

<303> Nature

<304> 378

<305> 6553

<306> 199-203

<307> 1995

<308> U38946

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gca aga act tca cca tgg agc tat gga gat tat gat aat tgc caa cag 96

Ala Arg Thr Ser Pro Trp Ser Tyr Gly Asp Tyr Asp Asn Cys Gln Gln

20 25 30

gat cat gat tat ctt cta ggg ttt tca tgg cca cca aga tcc tac act 144

Asp His Asp Tyr Leu Leu Gly Phe Ser Trp Pro Pro Arg Ser Tyr Thr

35 40 45

tgc agc ttc tgc aaa agg gaa ttc aga tcg gct caa gca ctt ggt ggc 192

Cys Ser Phe Cys Lys Arg Glu Phe Arg Ser Ala Gln Ala Leu Gly Gly

50 55 60

cac atg aat gtt cac aga aga gac aga gca aga ctc aga tta caa cag 240

His Met Asn Val His Arg Arg Asp Arg Ala Arg Leu Arg Leu Gln Gln

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Ser Pro Ser Ser Ser Ser Thr Pro Ser Pro Pro Tyr Pro Asn Pro Asn			
85	90	95	
tac tct tac tca acc atg gca aac tct cct cct cct cat cat tct cct	336		
Tyr Ser Tyr Ser Thr Met Ala Asn Ser Pro Pro Pro His His Ser Pro			
100	105	110	
cta acc cta ttt cca acc ctt tct cct cca tcc tca cca aga tat agg	384		
Leu Thr Leu Phe Pro Thr Leu Ser Pro Pro Ser Ser Pro Arg Tyr Arg			
115	120	125	
gca ggt ttg atc cgt tcc ttg agc ccc aag tca aaa cat aca cca gaa	432		
Ala Gly Leu Ile Arg Ser Leu Ser Pro Lys Ser Lys His Thr Pro Glu			
130	135	140	
aac gct tgt aag act aag aaa tca tct ctt tta gtg gag gct gga gag	480		
Asn Ala Cys Lys Thr Lys Lys Ser Ser Leu Leu Val Glu Ala Gly Glu			
145	150	155	160
gct aca agg ttc acc agt aaa gat gct tgc aag atc ctg agg aat gat	528		
Ala Thr Arg Phe Thr Ser Lys Asp Ala Cys Lys Ile Leu Arg Asn Asp			
165	170	175	
gaa atc atc agc ttg gag ctt gag att ggt ttg att aac gaa tca gag	576		
Glu Ile Ile Ser Leu Glu Leu Glu Ile Gly Leu Ile Asn Glu Ser Glu			
180	185	190	
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<222> (1) (1887)

<223>

<300>

<301>

Chao, Q. , Rothenberg, M. , Solano, R. , Roman, G. , Terzaghi, W. and Ecker, J. R.

<302>

Activation of the ethylene gas response pathway in Arabidopsis by the nuclear protein
ETHYLENE-INSENSITIVE3 and related proteins

<303> Cell

<304> 89

<305> (7)

<306> 1133-1144

<307> (1997)

<308> AF004216

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Ser Gly Ser Leu Gly Glu Val Asp Phe Cys Pro Val Pro Gln Ala Glu

20

25

30

cct gat tcc att gtt gaa gat gac tat act gat gat gag att gat gtt 144

Pro Asp Ser Ile Val Glu Asp Asp Tyr Thr Asp Asp Glu Ile Asp Val

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gat gaa ttg gag agg agg atg tgg aga gac aaa atg cgg ctt aaa cgt 192

Asp Glu Leu Glu Arg Arg Met Trp Arg Asp Lys Met Arg Leu Lys Arg

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 Arg Gln Ser Gln Glu Gln Ala Arg Arg Lys Lys Met Ser Arg Ala Gln
 85 90 95
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 Asp Gly Ile Leu Lys Tyr Met Leu Lys Met Met Glu Val Cys Lys Ala
 100 105 110
 caa ggc ttt gtt tat ggg att att ccg gag aat ggg aag cct gtg act 384
 Gln Gly Phe Val Tyr Gly Ile Ile Pro Glu Asn Gly Lys Pro Val Thr
 115 120 125
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 Gly Ala Ser Asp Asn Leu Arg Glu Trp Trp Lys Asp Lys Val Arg Phe
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 Ile Pro Gly Ile His Glu Gly Asn Asn Pro Ile Gly Pro Thr Pro His
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 cat caa gaa cat ctc cag ttc cca gga aac atg gtg gaa gga agt ttc 1584
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 565 570 575
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 580 585 590
 ccg ttc gac atg gcg tca ttc gat tac aga gat gat atg tcg atg cca 1824
 Pro Phe Asp Met Ala Ser Phe Asp Tyr Arg Asp Asp Met Ser Met Pro
 595 600 605
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 Ser Ile Trp Phe
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<222> (1) (678)

<223>

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<301> Ohme-Takagi, M. and Shinshi, H.

<302>

Ethylene-inducible DNA binding proteins that interact with an ethylene-responsive

element

<303> Plant Cell

<304> 7

<305> (2)

<306> 173-182

<307> 1995

<308> D38124

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Val Lys Thr Asp Gly Val Lys Glu Val His Tyr Arg Gly Val Arg Lys

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Arg Pro Trp Gly Arg Tyr Ala Ala Glu Ile Arg Asp Pro Gly Lys Lys

35 40 45

agt cgg gtc tgg tta ggt act ttc gac acg gcg gaa gag gcg gct aag 192

Ser Arg Val Trp Leu Gly Thr Phe Asp Thr Ala Glu Glu Ala Ala Lys

50 55 60

gcg tac gac acc gcc gct cga gag ttt cgt gga ccc aaa gca aaa act 240

Ala Tyr Asp Thr Ala Ala Arg Glu Phe Arg Gly Pro Lys Ala Lys Thr

65 70 75 80

aac ttc cct tca ccg acg gag aat cag agc cca agt cac agc agc acc 288

Asn Phe Pro Ser Pro Thr Glu Asn Gln Ser Pro Ser His Ser Ser Thr

85 90 95

gtg gag tcc tct agt gga gag aat ggt gtt cac gcg ccg cct cat gcg 336

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<222> (1) (933)

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<301> Takada, S., Hibara, K., Ishida, T., Tasaka, M.

<302>

The cup-shaped cotyledon1 of Arabidopsis regulates shoot apical meristem formation

<303> Development

<304> 128

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<306> 1127-1135

<307> 2001

<308> AB049069

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Glu Ser Leu Met Pro Pro Gly Phe Arg Phe His Pro Thr Asp Glu Glu
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Leu Ile Thr Tyr Tyr Leu Leu Lys Lys Val Leu Asp Ser Asn Phe Ser
          35              40              45
tgt gcc gcc att tct caa gtt gat ctc aac aag tct gag cct tgg gag 192
Cys Ala Ala Ile Ser Gln Val Asp Leu Asn Lys Ser Glu Pro Trp Glu
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ctt cct gag aaa gcg aaa atg ggg gag aag gag tgg tac ttc ttc aca 240
Leu Pro Glu Lys Ala Lys Met Gly Glu Lys Glu Trp Tyr Phe Phe Thr
          65              70              75              80
cta aga gac cgt aaa tac cca acg gga ctg aga acg aac aga gca aca 288
Leu Arg Asp Arg Lys Tyr Pro Thr Gly Leu Arg Thr Asn Arg Ala Thr
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<301> Borevitz J. O., Xia Y., Blount J., Dixon R. A., Lamb C.

<302>

Activation tagging identifies a conserved MYB regulator of phenylpropanoid biosynthesis.

<303> Plant Cell

<304> 12

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<306> 2383-2393

<307> 2000

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Glu Asp Ser Leu Leu Arg Gln Cys Ile Asn Lys Tyr Gly Glu Gly Lys

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tgg cac caa gtt cct gta aga gct ggg cta aac cgg tgc agg aaa agt	144		
Trp His Gln Val Pro Val Arg Ala Gly Leu Asn Arg Cys Arg Lys Ser			
35	40	45	
tgt aga tta aga tgg ttg aac tat ttg aag cca agt atc aag aga gga	192		
Cys Arg Leu Arg Trp Leu Asn Tyr Leu Lys Pro Ser Ile Lys Arg Gly			
50	55	60	
aaa ctt agc tct gat gaa gtc gat ctt ctt ctt cgc ctt cat agg ctt	240		
Lys Leu Ser Ser Asp Glu Val Asp Leu Leu Leu Arg Leu His Arg Leu			
65	70	75	80
cta ggg aat agg tgg tct tta att gct gga aga tta cct ggt cgg acc	288		
Leu Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly Arg Thr			
85	90	95	
gca aat gac gtc aag aat tac tgg aac act cat ctg agt aag aaa cat	336		
Ala Asn Asp Val Lys Asn Tyr Trp Asn Thr His Leu Ser Lys Lys His			
100	105	110	
gaa ccg tgt tgt aag ata aag atg aaa aag aga gac att acg ccc att	384		
Glu Pro Cys Cys Lys Ile Lys MET Lys Lys Arg Asp Ile Thr Pro Ile			
115	120	125	
cct aca aca ccg gca cta aaa aac aat gtt tat aag cct cga cct cga	432		
Pro Thr Thr Pro Ala Leu Lys Asn Asn Val Tyr Lys Pro Arg Pro Arg			
130	135	140	
tcc ttc aca gtt aac aac gac tgc aac cat ctc aat gcc cca cca aaa	480		
Ser Phe Thr Val Asn Asn Asp Cys Asn His Leu Asn Ala Pro Pro Lys			
145	150	155	160
gtt gac gtt aat cct cca tgc ctt gga ctt aac atc aat aat gtt tgt	528		
Val Asp Val Asn Pro Pro Cys Leu Gly Leu Asn Ile Asn Asn Val Cys			
165	170	175	
gac aat agt atc ata tac aac aaa gat aag aag aaa gac caa cta gtg	576		
Asp Asn Ser Ile Ile Tyr Asn Lys Asp Lys Lys Lys Asp Gln Leu Val			

180	185	190	
aat aat ttg att gat gga gat aat atg tgg tta gag aaa ttc cta gag			624
Asn Asn Leu Ile Asp Gly Asp Asn MET Trp Leu Glu Lys Phe Leu Glu			
195	200	205	
gaa agc caa gag gta gat att ttg gtt cct gaa gcg acg aca aca gaa			672
Glu Ser Gln Glu Val Asp Ile Leu Val Pro Glu Ala Thr Thr Thr Glu			
210	215	220	
aag ggg gac acc ttg gct ttt gac gtt gat caa ctt tgg agt ctt ttc			720
Lys Gly Asp Thr Leu Ala Phe Asp Val Asp Gln Leu Trp Ser Leu Phe			
225	230	235	240
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<301> Kirik V., Schnittger A., Radchuk V., Adler K., Hulskamp M. Baumlein H.

<302>

Ectopic expression of the Arabidopsis AtMYB23 gene induces differentiation of trichome cells.

<303> Developmental Biology

<304> 235

<305>

<306> 366-377

<307> 2001

<308> Z68158

<400> 69

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Trp Thr Val Glu Glu Asp Lys Ile Leu MET Asp Tyr Val Arg Thr His

20 25 30

ggc cag ggc cac tgg aac cgc atc gcc aag aaa act ggg ctc aag aga 144

Gly Gln Gly His Trp Asn Arg Ile Ala Lys Lys Thr Gly Leu Lys Arg

35 40 45

tgt ggg aaa agc tgt agg ttg aga tgg atg aac tac tta agc cct aat 192

Cys Gly Lys Ser Cys Arg Leu Arg Trp MET Asn Tyr Leu Ser Pro Asn

50 55 60

ggt aac aga ggc aat ttt act gac caa gaa gaa gat ctc atc atc aga	240
Val Asn Arg Gly Asn Phe Thr Asp Gln Glu Glu Asp Leu Ile Ile Arg	
65 70 75 80	
ctc cac aag ctc ctc ggc aac aga tgg tgc ttg ata gcg aaa aga gtt	288
Leu His Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Lys Arg Val	
85 90 95	
ccg gga aga aca gac aac caa gta aag aat tac tgg aac aca cat ctc	336
Pro Gly Arg Thr Asp Asn Gln Val Lys Asn Tyr Trp Asn Thr His Leu	
100 105 110	
agc aag aaa ctt ggt ctc gga gat cat tca act gcc gtc aaa gcc gca	384
Ser Lys Lys Leu Gly Leu Gly Asp His Ser Thr Ala Val Lys Ala Ala	
115 120 125	
tgc ggt gta gag tct cca ccg tct atg gcc ctt ata acc aca acg tcc	432
Cys Gly Val Glu Ser Pro Pro Ser MET Ala Leu Ile Thr Thr Thr Ser	
130 135 140	
tcc tct cat caa gag atc tcc ggt gga aaa aat tca act cta agg ttc	480
Ser Ser His Gln Glu Ile Ser Gly Gly Lys Asn Ser Thr Leu Arg Phe	
145 150 155 160	
gac act tta gtt gac gaa tcc aaa ctc aaa cca aaa tcc aaa cta gtc	528
Asp Thr Leu Val Asp Glu Ser Lys Leu Lys Pro Lys Ser Lys Leu Val	
165 170 175	
cac gca aca cca act gac gta gaa gtt gca gct acg gtt cca aat ctg	576
His Ala Thr Pro Thr Asp Val Glu Val Ala Ala Thr Val Pro Asn Leu	
180 185 190	
ttc gat acc ttt tgg gtt ctt gaa gac gac ttc gag ctt agt tca ctc	624
Phe Asp Thr Phe Trp Val Leu Glu Asp Asp Phe Glu Leu Ser Ser Leu	
195 200 205	
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